

APPLICATION NO.

10/627,459

United States Patent and Trademark Office

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EXAMINER

22879 7590 03/29/2006

HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

FILING DATE

07/25/2003

ART UNIT PAPER NUMBER

3746

BELT, SAMUEL E

DATE MAILED: 03/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

David R. Otis JR.

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ant(s)					
DAVID R.					
it					
ndence address					
THIRTY (30) DAYS,					
g date of this communication. C. § 133). Ice any					
on as to the merits is 213.					

Office Action Summary

	Application No.	Applicant(s)		
	10/627,459	OTIS, DAVID R.		
	Examiner	Art Unit		
	Samuel E. Belt	3746		
- core on the cover sheet with the correspondence address				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

1 01104 10	1 Kopij					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY IS SET TO THE WERL IS LONGER, FROM THE MAILING DATE OF THE SIGN OF THE MAILING DATE OF THE SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period will apply and wire to reply within the set or extended period for reply will, by statute, cause the apple ply received by the Office later than three months after the mailing date of this cored patent term adjustment. See 37 CFR 1.704(b).	IIS COMMUNICATION. ent, however, may a reply be timely filed II expire SIX (6) MONTHS from the mailing date of this communication. ication to become ABANDONED (35 U.S.C. § 133).				
Status						
1)[汉]	Responsive to communication(s) filed on <u>25 July 2003</u> .					
,	This action is FINAL . 2b)⊠ This action is n	on-final.				
.—	Since this application is in condition for allowance except					
,	closed in accordance with the practice under Ex parte Qu					
Disposition of Claims						
•						
,—	Claim(s) <u>1-20</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from co	nsideration.				
,—	Claim(s) is/are allowed.					
·	Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/or election re	equirement				
٥/۵	Claim(s) are subject to restriction and or election in	oquii omomi				
Applicati	on Papers					
9)	The specification is objected to by the Examiner.					
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Examiner. No	ote the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
	a) ☐ All b) ☐ Some * c) ☐ None of:					
,.	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have bee					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rul	e 17.2(a)).				
* 5	* See the attached detailed Office action for a list of the certified copies not received.					
Attachmen	t(s)					
_	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	6) Other:				
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DETAILED ACTION

Claim Rejections - 35 USC § 112, second paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 5,11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4, & 11-13 recite the limitation "wherein the rotor control mechanism" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "a control mechanism" in line 2, it is unclear as to whether applicant meant to state "said mechanism" if not please clarify by specifying the mechanism. There is insufficient antecedent basis for this limitation in the claim.

Clarification and/or correction are required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 8, 11, & 15-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Stenner (US Patent 4,600,366).

Stenner discloses a pump having a rotary portion which compels the movement of a fluid by peristaltic compression of resilient tubing containing the fluid, a roller assembly comprising the following: at least one roller mounted in the rotary portion of the pump (column 1, line 24+) for contact with the resilient tubing, the at least one roller having a range of rotation in contact with the tubing during pump operation; and a roller control mechanism (Figure 1, item 10) adapted and constructed to stop the at least one roller at a single, predetermined location on the tubing when the pump operation is stopped; wherein the at least one roller comprises two rollers (column 1, line 24+); wherein the rotor control mechanism comprises a slip clutch on which the rotors are mounted (Figure 1, item 16, See **notes**).

(Notes:

In regard to claim 5, the applicants "adapted & constructed to" statement is not a positive limitation but only require the ability to so perform.

In regard to claim 4, plate 14 is being considered as a rotor.

End Notes)

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 & 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stenner (US Patent 4,600,366) in view of Lang et al. (US Patent 5,133,440) and Nielson (US Patent 3,636,570). Stenner sets forth a device as described above, which is substantially analogous to the claimed invention. The Stenner device differs from the claimed invention in that there is no explicit teaching of a stop-pin and stop bar arrangement. Lang et al. teach a rotary stop mechanism having a stop-pin (Figure 3, item 26) and a stop (Figure 2, item 32). Nielson teaches a rotary stop bar (Figure 17, item 300).

It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to modify the Stenner device by using the stop pin and stop bar arrangement as taught by Lang et al. and Nielson in order to better control of the positioning of the shaft when it's rotation is stopped.

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Claims 7, 9-10, 12, 14, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stenner (US Patent 4,600,366) in view of Weishaar (US Patent 3,799,702).

In regard to claims 7, 14, and 20 Stenner sets forth a device as described above, which is substantially analogous to the claimed invention. The Stenner device differs from the claimed invention in that there is no explicit teaching of a flow control mechanism adapted and constructed to compensate for localized tubing collapse. Weishaar teach a roller pump having a control means, which uses a pressure measurement device for controlling the motor speed (Figure 1, items 10 & 11).

It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to modify the Stenner device by using the control device as taught by Weishaar in order to better control the speed of the motor and provide a more efficient pumping system.

In regards to Claims 9-10, &12 Stenner sets forth a device as described above, which is substantially analogous to the claimed invention. The Stenner device differs from the claimed invention in that there is no explicit teaching of rollers being mounted 180 degrees from one another. However, Stenner does disclose that a plurality of spaced rollers can be used in a peristaltic pump (column 1, line 23+). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to modify the Stenner device by using two rollers that are equally spaced apart for pumping a fluid in a peristaltic pump, as it is a conventional configuration used in the art.

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Alternately Weishaar teaches a roller pump having a 2-roller configuration in which the 2-rollers are mounted 180 degrees from one another (Figure 1, items 6 & 7).

It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to modify the Stenner device by using two rollers that are equally spaced apart as taught by Weishaar, for pumping a fluid in a peristaltic pump, as it is a conventional configuration used in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel E. Belt whose telephone number is (571) 272-7820. The examiner can normally be reached on M-F, 8 - 4:30EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe can be reached on (571) 272-4444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SEB

TAE JUN KIM PRIMARY EXAMINER Samuel E. Belt 03/22/2006